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CENTRAL INTELLIGENCE AGENCY

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## INFORMATION REPORT

COUNTRY Cornery (Seviet Zone)
SUBJECT Carl Zoiss, Jena /Electronic Multipliers, Synthetic Crystals

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- Secondary emission electronic multipliers are being delivered to the Seviet Union and the research institute at Berlin-Priodrichshafen. There are 25 of these machines in existence at the present time. One hundred are to be manufactured in April 1954.
- 2. Technical data; amplification about 10<sup>6</sup>; voltage, 2,800 V. Feed wire from socket and from everhead. The voltage is to be increased in the next machines made. The exparatus has very good constancy. Range: 200 mm to red. The sensitive layer cons. s of cosium (cs) and antimeny. These materials are procured in the West and there is enough on hand for the tipe being. The price of the machines is between 350 and 500 marks. Comparative tests with increase equipment are being carried at at the present time.
- 3. Teless Jone has been working for about five years on the development of synthetic enystals and has finally succeeded in producing crystals about 10 cm. in size. They are used as substitutes for quarts resonators, to which they have proved superior. Grystals are supplied for the time being only to the research institute at Friedrichshafen, which belongs to the Volkspolized and is working primarily with radar and electronic measurement technique.

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